

Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

1. (Currently Amended) A method for making data derived from a video signal accessible, comprising:
  - receiving data derived from a vertical blanking interval of a video signal;
  - storing the data received on a storage medium for retrieval based on a subsequently received request; [[and]]
  - indexing the stored data such that an application may retrieve a portion of the stored data with a database query and render an electronic programming guide based on the retrieved stored data, wherein indexing the stored data including includes:
    - preparing data tables having an index data area and a detail data area,
    - separating the stored data into index data and detail data, and
    - loading data to the data tables;
  - generating display data corresponding to a listing of shows for presentation as part of the electronic programming guide by:
    - determining search criteria associated with the listing of shows,
    - searching the index data stored in the index data area based on the search criteria associated with the listing of shows,
    - identifying one or more shows to include in the listing of shows based on
    - searching the index data stored in the index data area,
    - accessing, from the index data stored in the index data area, show information for the identified one or more shows, and
    - generating the display data corresponding to the listing of shows based on the show information accessed from the index data stored in the index data area; and

generating display data corresponding to a show description for presentation as part of the electronic programming guide by:

determining search criteria associated with a particular show,

searching the detail data stored in the detail data area based on the search criteria associated with the particular show,

identifying show description information for the particular show based on searching the detail data stored in the detail data area,

accessing, from the detail data stored in the detail data area, the show description information for the particular show, and

generating the display data corresponding to the show description based on the show description information accessed from the detail data stored in the detail data area.

2. (Original) The method of claim 1, wherein the storing of the data makes the data accessible to an application program interface.

3. (Original) The method of claim 1, wherein the storage medium is a disk drive such that the storing includes storing the data on the disk drive.

4. (Original) The method of claim 1, wherein the video signal is a cable broadcasted video signal such that receiving the data includes receiving data derived from the vertical blanking interval of the cable broadcasted video signal.

5. (Currently Amended) The method of claim 1, wherein the video signal is a ~~terrestrial~~ terrestrial broadcasted video signal such that receiving the data includes receiving data derived from the vertical blanking interval of the ~~terrestrial~~ terrestrial broadcasted video signal.

6. (Original) The method of claim 1, wherein the video signal is a satellite broadcasted video signal such that receiving the data includes receiving data derived from the vertical blanking interval of the satellite broadcasted video signal.

7. (Original) The method of claim 1, further comprising deriving the data by parsing data received from the vertical blanking interval of the video signal.

8. (Currently Amended) ~~A computer program, embodied in a computer-readable medium, capable of generating digital data representing information communicated in a vertical blanking interval of a video signal, the computer program~~ At least one computer-readable storage medium storing one or more computer programs, the one or more computer programs comprising executable instructions that, when executed by a processor, perform operations comprising:

~~a receiving code segment that receives~~ receiving data representing information communicated in a vertical blanking interval of a video signal;

~~a generating code segment that generates~~ generating digital data based on the data using a predetermined algorithm; and

~~a storing code segment that stores~~ storing the generated data on a storage medium,

wherein: ~~the receiving code segment~~

receiving the data includes:

~~a sampling code segment that periodically samples~~ sampling at least a portion of the video signal containing the information,

~~a code segment that generates~~ generating a numeric representation of the information including an array of values based on samples from sampling the portion of the video signal ~~the sampling code segment, and~~

~~a code segment that receives~~ receiving the array as at least a portion of the data; and

generating the digital data includes:

converting values from within the array of values to at least one binary character string;

computing an average of several of the array values;

biasing the average to establish a cutoff value; and

classifying the information as electronic programming guide data based on whether the received data exceeds the cutoff value.

9. (Currently Amended) The at least one computer-readable storage medium computer program of claim 8, wherein the data includes non-video information and ~~[[the]]~~ receiving the data ~~code segment~~ includes a ~~code segment that receives~~ receiving data representing non-video information.

10. (Currently Amended) The at least one computer-readable storage medium computer program of claim 8, wherein the video signal is a cable broadcasted video signal such that ~~[[the]]~~ receiving the data ~~code segment~~ includes a ~~code segment that receives~~ receiving data communicated with the cable broadcasted video signal.

11. (Currently Amended) The at least one computer-readable storage medium computer program of claim 8, wherein the video signal is a satellite broadcasted video signal such that ~~[[the]]~~ receiving the data ~~code segment~~ includes a ~~code segment that receives~~ receiving data communicated with the satellite broadcasted video signal.

12. (Currently Amended) The at least one computer-readable storage medium computer program of claim 8, wherein the video signal is a ~~terrestrial~~ terrestrial broadcasted video signal such that ~~[[the]]~~ receiving the data ~~code segment~~ includes a ~~code segment that receives~~ receiving data communicated with the ~~terrestrial~~ terrestrial broadcasted video signal.

13. (Currently Amended) The at least one computer-readable storage medium computer program of claim 8, wherein ~~[[the]]~~ receiving the data ~~code segment~~ includes a ~~code segment that receives~~ receiving data representing the information communicated with the video signal from among a vertical blanking interval of the video signal.

14. (Currently Amended) The at least one computer-readable storage medium computer program of claim 8, wherein at least one of the one or more computer program programs is an embedded software application.

15. (Currently Amended) The at least one computer-readable storage medium computer program of claim 8, wherein [[the]] generating the digital data code segment includes a code segment for converting the data into a format that is used to generate an electronic programming guide.

16-19. (Canceled)

20. (Currently Amended) The at least one computer-readable storage medium computer program of claim [[19]] 8, wherein computing the average of several of the array values the averaging code segment includes a moving averaging code segment that compute computing a moving average based on the values.

21. (Currently Amended) The at least one computer-readable storage medium computer program of claim [[19]] 8, wherein the classifying code segment classifies classifying the information includes classifying the information as a clock run in when the average exceeds the cutoff value.

22. (Currently Amended) The at least one computer-readable storage medium computer program of claim 8, wherein the array of values represent at least color information and control information.

23-25. (Canceled)

26. (Previously Presented) The method of claim 1, wherein indexing the stored data further includes updating all indexes associated with the data tables.

27. (Previously Presented) The method of claim 1, further comprising storing the data received in temporary memory prior to storing the data received on a storage medium.

28. (New) The method of claim 1, wherein:

determining search criteria associated with the listing of shows includes determining search criteria that includes a time range and a channel range;

searching the index data stored in the index data area based on the search criteria associated with the listing of shows includes searching the index data stored in the index data area based on the time range and the channel range;

identifying one or more shows to include in the listing of shows based on searching the index data stored in the index data area includes identifying one or more shows included within the time range and the channel range;

accessing, from the index data stored in the index data area, show information for the identified one or more shows includes forming an array including brief show information for each of the identified one or more shows included within the time range and the channel range;

determining search criteria associated with the particular show includes determining a time attribute and a show reference;

searching the detail data stored in the detail data area based on the search criteria associated with the particular show includes searching the detail data stored in the detail data area based on the time attribute and the show reference;

identifying show description information for the particular show based on searching the detail data stored in the detail data area includes identifying show description information for the particular show corresponding to the time attribute and the show reference; and

accessing, from the detail data stored in the detail data area, the show description information for the particular show includes accessing, from the detail data stored in the detail data area, extended information about the particular show.

29. (New) The method of claim 1 further comprising:

generating display data corresponding to a category-filtered listing of shows for presentation as part of the electronic programming guide by:

determining search criteria including a time attribute and a category attribute,  
searching the index data stored in the index data area based on the time attribute  
and the category attribute,

based on searching the index data stored in the index data area, identifying one or more shows corresponding to the time attribute and the category attribute;

accessing, from the index data stored in the index data area, show information for the identified one or more shows corresponding to the time attribute and the category attribute, and

generating the display data corresponding to the category-filtered listing of shows based on the show information, accessed from the index data stored in the index data area, for the identified one or more shows corresponding to the time attribute and the category attribute.

30. (New) A method for making data derived from a video signal accessible, comprising:

receiving data representing information communicated in a vertical blanking interval of a video signal;

generating digital data based on the data using a predetermined algorithm; and

storing the generated data on a storage medium,

wherein:

receiving the data includes:

periodically sampling at least a portion of the video signal containing the information,

generating a numeric representation of the information including an array of values based on samples from sampling the portion of the video signal, and

receiving the array as at least a portion of the data; and

generating the digital data includes:

converting values from within the array of values to at least one binary character string;

computing an average of several of the array values;

biasing the average to establish a cutoff value; and

classifying the information as electronic programming guide data based on whether the received data exceeds the cutoff value.

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Amendments to the Drawings:

The attached replacement sheets of drawings replaces the original sheets including Figs. 6-12.

Attachments following last page of this Amendment:

Replacement Sheet (7 pages)